

**AP55892PU-N****Polyclonal Antibody to Vimentin pSer56 - Aff - Purified**

<b>Alternate names:</b>	VIM
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells.
<b>Uniprot ID:</b>	<a href="#">P08670</a>
<b>NCBI:</b>	<a href="#">NP_003371.2</a>
<b>GeneID:</b>	<a href="#">7431</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Peptide sequence around phosphorylation site of serine 56 (A-S-S(p)-P-G) derived from Human Vimentin (KLH-conjugated)
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Affinity chromatography using epitope-specific peptide <b>Buffer System:</b> Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
<b>Applications:</b>	<b>Western blot:</b> 1:500~1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	54 kDa
<b>Specificity:</b>	The antibody detects endogenous level of Vimentin only when phosphorylated at serine 56.
<b>Species Reactivity:</b>	<b>Tested:</b> Human
<b>Storage:</b>	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Matsuyama M, Tanaka H, Inoko A, Goto H, Yonemura S, Kobori K, et al. Defect of mitotic vimentin phosphorylation causes microphthalmia and cataract via aneuploidy and senescence in lens epithelial cells. <i>J Biol Chem.</i> 2013 Dec 13;288(50):35626-35. doi: 10.1074/jbc.M113.514737. Epub 2013 Oct 18. PubMed PMID: 24142690. 2. Haolong C, Du N, Hongchao T, Yang Y, Wei Z, Hua Z, et al. Enterovirus 71 VP1 activates calmodulin-dependent protein kinase II and results in the rearrangement of vimentin in human astrocyte cells. <i>PLoS One.</i> 2013 Sep 20;8(9):e73900. doi: 10.1371/journal.pone.0073900. eCollection 2013. PubMed PMID: 24073199. 3. Kotula E, Faigle W, Berthault N, Dingli F, Loew D, Sun JS, et al. DNA-PK target identification reveals novel links between DNA repair signaling and cytoskeletal regulation. <i>PLoS One.</i> 2013 Nov 25;8(11):e80313. doi: 10.1371/journal.pone.0080313. eCollection 2013. PubMed PMID: 24282534.

**Pictures:**

Western blot analysis of extracts from A549 cells treated with Nocodazole using Phospho-Vimentin (Ser56) antibody AP55892PU-N. The lane on the right is treated with the antigen-specific peptide.

